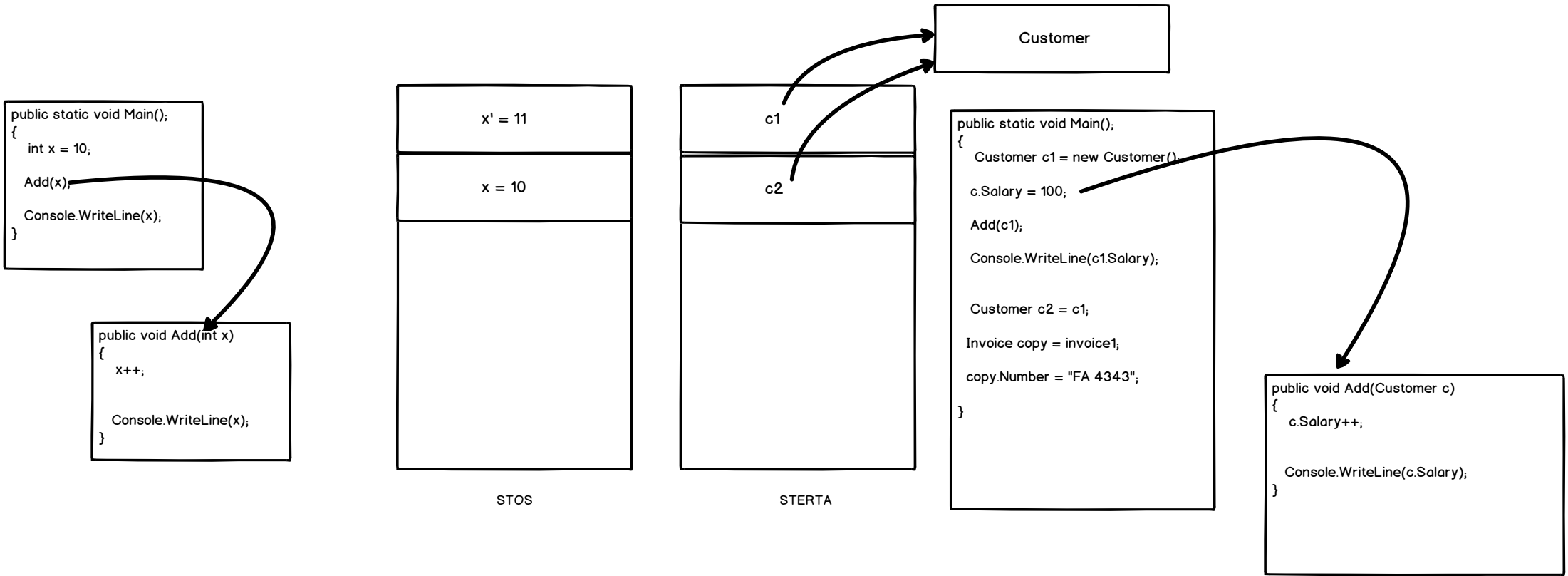
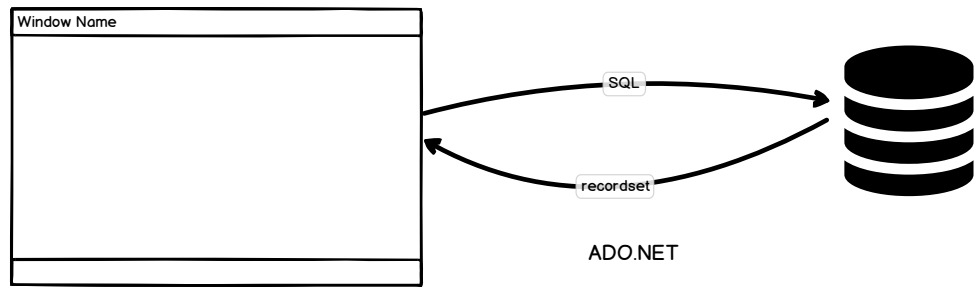


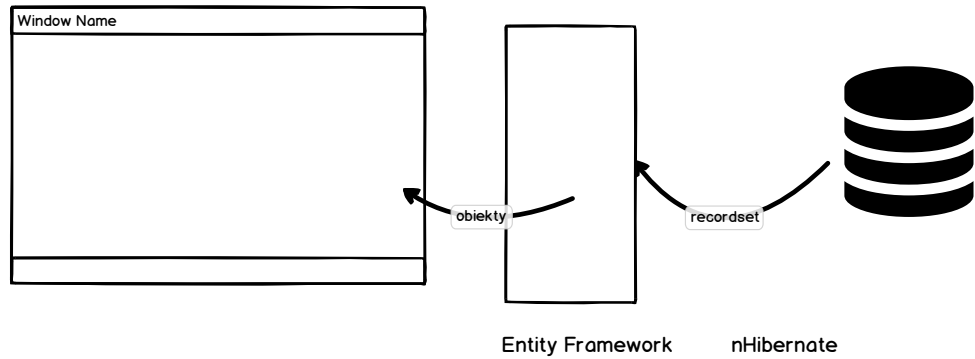
Typy referencyjne a wartosciowe



ADO.NET

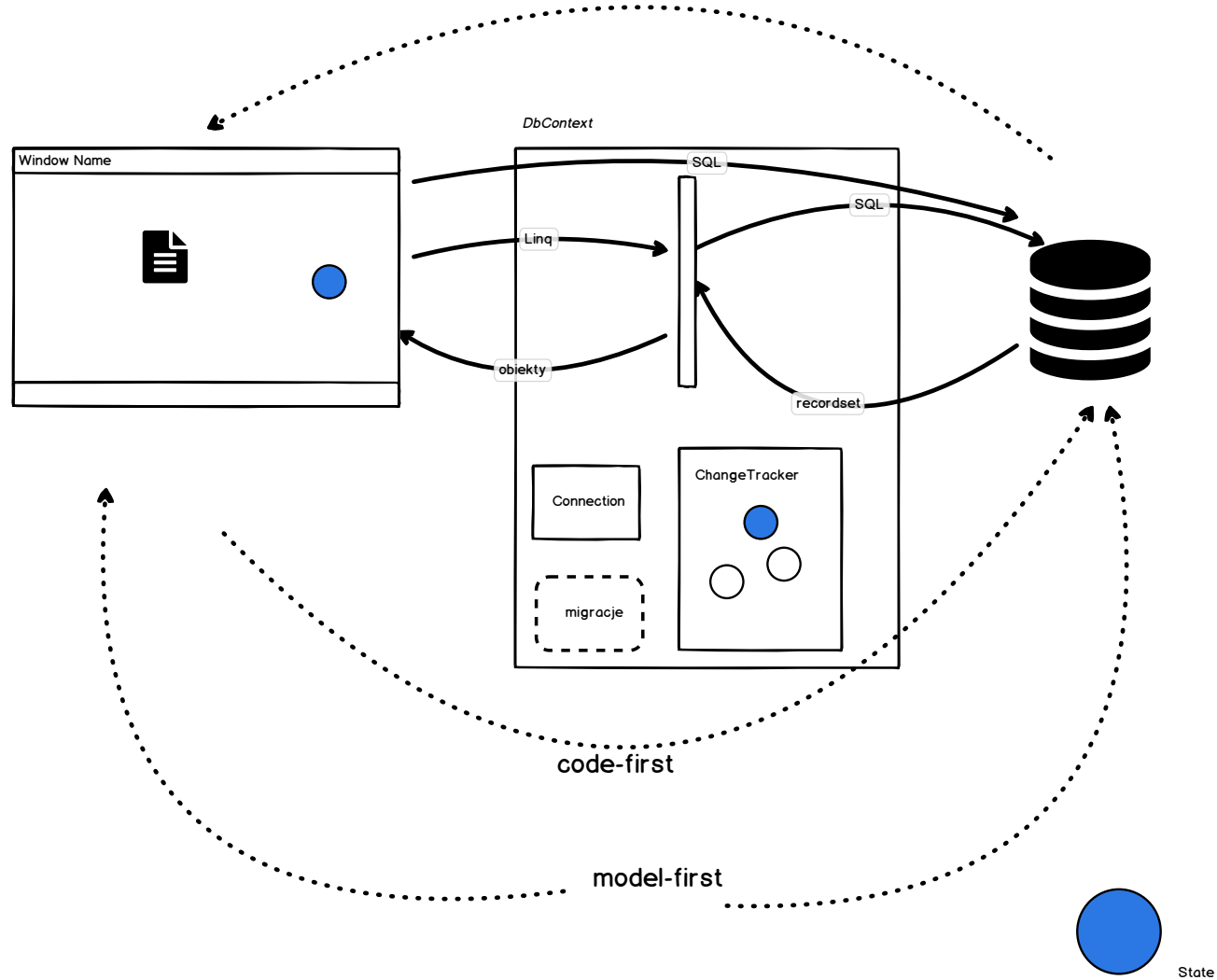


ORM (Object Relation Mapping)



Entity Framework nHibernate

database-first



Window Name

C#

LINQ

Extension methods

delegates -> Wyrażenia lambda

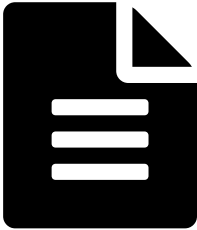
ADO.NET

SQL

C#

XPath

System.OI



Typy referencyjne a wartosciowe copy

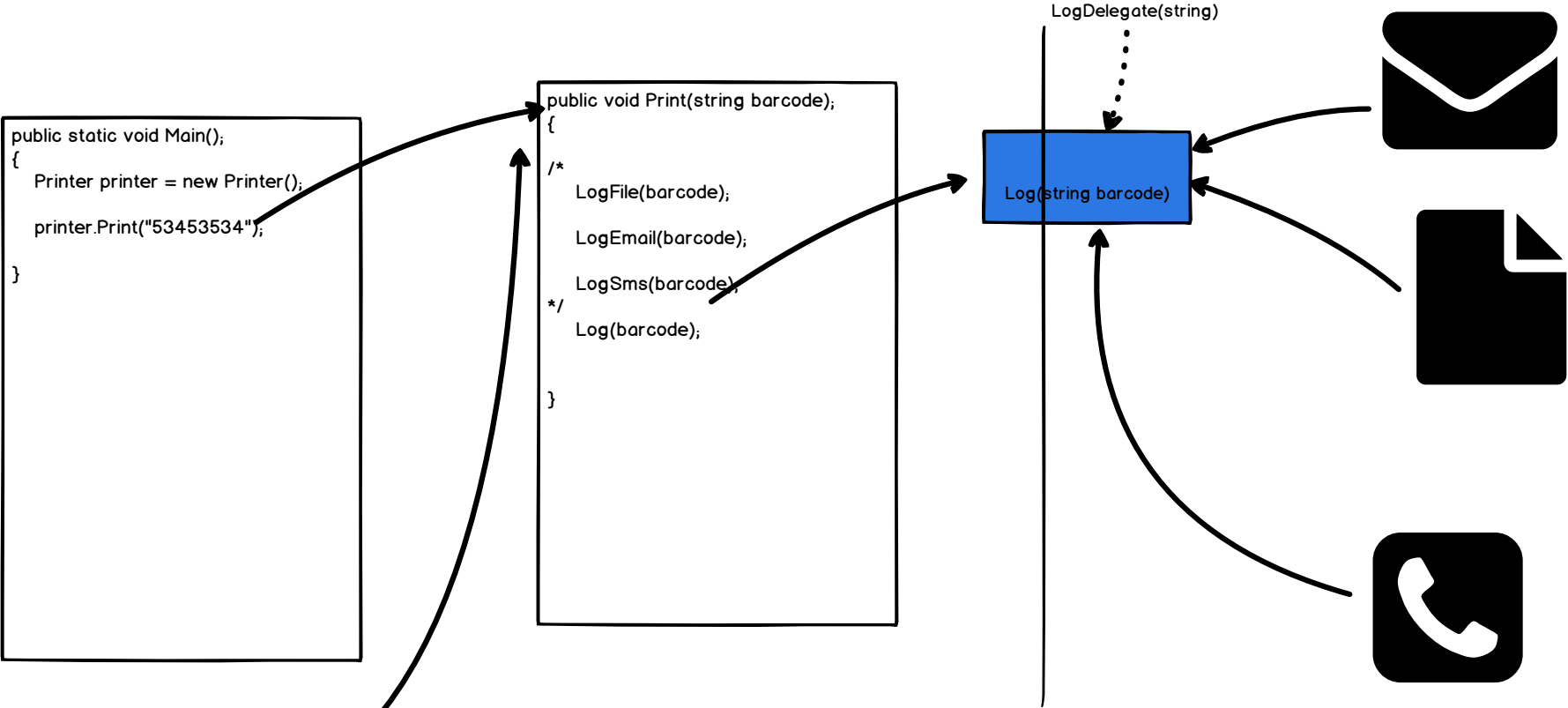
```
public static void Main();
{
    Printer printer = new Printer();
    printer.Print("53453534");
}
```

```
public static void Main();
{
    Printer printer = new Printer();
    printer.Print("4664564");
}
```

```
public void Print(string barcode);
{
    /*
        LogFile(barcode);
        LogEmail(barcode);
        LogSms(barcode);
    */
    Log(barcode);
}
```

Log(string barcode)

LogDelegate(string)



Lambda

```
public int Add(int x, int y)
{
    return x + y;
}
```

wyrażenia lambda

```
int x = 10;
int y = 5;
```

```
(x, y) => x + y
```

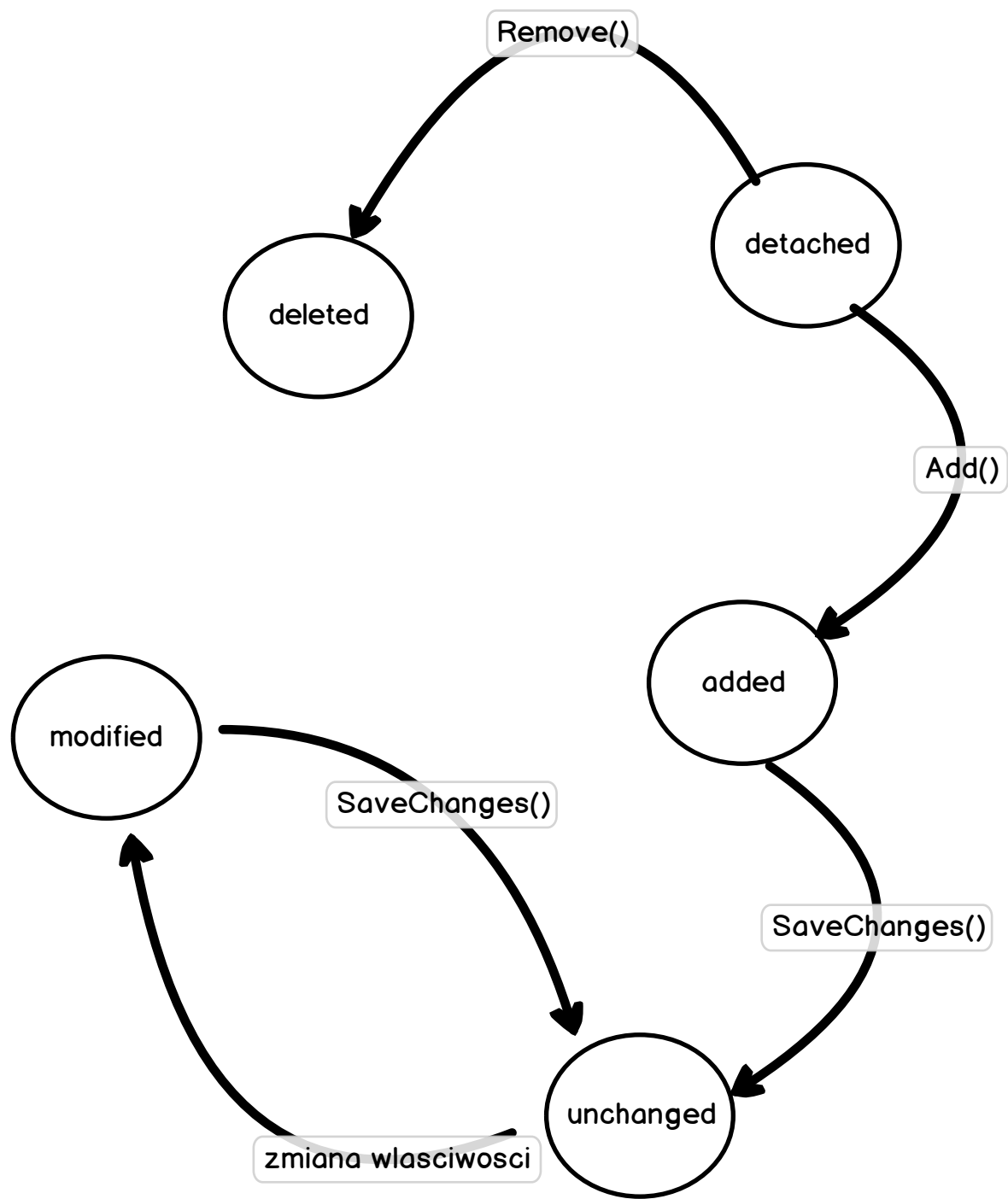
```
public int ____ (int x, int y)
{
    return x + y;
}
```

$$f(x, y) = x + y \quad x, y \in \mathbb{C}$$

rachunek lambda

$$(x, y) \rightarrow x + y \quad x, y \in \mathbb{C}$$

Entity States



Threads

